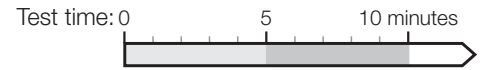


Test A: **Mixed**

Martha needs to purchase a new garden fence. Company A offers a deluxe fence at £2100, company B has a standard fence at £1250 and company C say they can offer a similar fence for £990. Each company is keen to provide Martha's fence and offer the following discounts: Company A a 33% discount, Company B a £400 reduction and Company C a 15% reduction.

- 1 What is the discounted price that Company A is now offering? \_\_\_\_\_  2
- 2 What is the amount of money that Company C is willing to take off? \_\_\_\_\_  3
- 3 What is the percentage decrease in the cost of the fence from Company B? \_\_\_\_\_  2

This table shows the scores that three girls achieved when they used a spinner eight times. Jess spun an eight-sided spinner, Elle spun a six-sided spinner and Lili spun a four-sided spinner.

Jess		Elle		Lili	
8	2	3	1	1	4
6	8	3	3	4	2
1	4	5	6	1	3
3	8	2	3	3	2

- 4 One of the spinners is biased. Which do you think it is most likely to be? How do you know?  3  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- 5 What was the mean average score for Jess?  1  
 \_\_\_\_\_

Rita uses the following recipe for baking cakes. It makes 18 small cakes.



**Recipe: Small cakes**  
From the kitchen of: **Rita**

**Ingredients:**  
100 g self-raising flour  
100 g sugar  
100 g butter  
3 eggs  
75 g sultanas  
1 teaspoon milk

- 6 How much self-raising flour will Rita need if she bakes 45 cakes? \_\_\_\_\_
- 7 How many eggs will Rita need if she bakes 66 cakes? \_\_\_\_\_
- 8 If Rita uses 350 g of sugar, how many cakes will this make? \_\_\_\_\_
- 9 If Rita uses 1125 g of sultanas, how many cakes will this make? \_\_\_\_\_

Complete these sequences. Underline the correct answer from options **a–e**.

- 10 718.93    719.38    719.83    720.28    \_\_\_\_\_    721.18  
a 720.03    b 720.63    c 720.73    d 720.83    e 721.03
- 11 \_\_\_\_\_    51.031    52.741    54.451    56.161    57.871  
a 49.321    b 49.851    c 50.941    d 50.321    e 50.871
- 12 15.95    31.9    63.8    127.6    255.2    \_\_\_\_\_  
a 520.4    b 500.2    c 510.2    d 500.4    e 510.4

Total

# Answers

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## Test A: Mixed

- 1 £1407 ( $£2100 \div 100 \times 67$ )
- 2 £148.50 ( $£990 \div 100 \times 15$ )
- 3 32% ( $£400 \div £1250 \times 100$ )
- 4 Elle has a biased spinner (1 mark). It lands on 3 more than any other number (1 mark) and more than probability (1 mark).
- 5 5 (total score (40) divided by number of spins (8))
- 6 250g (18 cakes need 100g; 45 cakes is  $2\frac{1}{2}$  times 18.  
 $2\frac{1}{2} \times 100\text{g} = 250\text{g}$ )
- 7 11 eggs (If 18 cakes need 3 eggs then 1 egg makes 6 cakes.  $66 \div 6 = 11$ )
- 8 63 ( $350\text{g} = 3\frac{1}{2} \times 100\text{g}$ .  
 $18 \times 3\frac{1}{2} = 63$ )
- 9 270 ( $1125\text{g} = 15 \times 75\text{g}$ .  
 $18 \times 15 = 270$ )
- 10 c (+ 0.45)
- 11 a (+ 1.71)
- 12 e ( $\times 2$ )